



PTO/SB/08A (10-01)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 17 Sheets

Complete if Known

Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	Paul Powell
Attorney Docket Number	AVSI-0034 (108328.00172)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
pn	1	U.S.- 4,683,202	28-Jul-87	Mullis	Entire Patent
	2	U.S.- 4,956,288	11-Sep-90	Barsoum	Entire Patent
	3	U.S.- 5,298,422	29-Mar-94	Schwartz	Entire Patent
	4	U.S.- 5,374,544	20-Dec-94	Schwartz	Entire Patent
	5	U.S.- 5,384,253	24-Jan-95	Krzyzck	Entire Patent
	6	U.S.- 5,439,440	08-Aug-95	Hofmann	Entire Patent
	7	U.S.- 5,702,384	30-Dec-97	Umeyama	Entire Patent
	8	U.S.- 5,704,908	06-Jan-98	Hofmann	Entire Patent
	9	U.S.- 5,756,264	26-May-98	Schwartz	Entire Patent
	10	U.S.- 5,925,564	20-Jul-99	Schwartz	Entire Patent
	11	U.S.- 5,925,565	20-Jul-99	Berlioz	Entire Patent
	12	U.S.- 5,928,906	27-Jul-99	Koster	Entire Patent
	13	U.S.- 5,935,819	10-Aug-99	Eichner	Entire Patent
	14	U.S.- 5,955,365	21-Sep-99	Szoka	Entire Patent
	15	U.S.- 6,150,168	21-Nov-00	Woo	Entire Patent
pn	16	U.S.- 6,177,554	23-Jan-01	Woo	Entire Patent

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature

Date Considered

3/14/2006

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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of 17 Sheets

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghla-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL DOWE
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PD	17	AIHARA, H. and J. Miyazaki. 1998. Gene transfer into muscle by electroporation in vivo. Nat. Biotechnol. 16:867-870.	
	18	AKENO, N., J. Robins, M. Zhang, M. F. Czyzyk-Krzeska, and T. L. Clemens. 2002. Induction of vascular endothelial growth factor by IGF-I in osteoblast-like cells is mediated by the PI3K signaling pathway through the hypoxia-inducible factor-2alpha. Endocrinology 143:420-425.	
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PD	26	BECKMAN, J.A., Creager, M.A., Libby, P., 2002. Diabetes and atherosclerosis: epidemiology, pathophysiology, and management. JAMA 287, 2570-2581.	

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Sheet 3 of 17 Sheets

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghla-Akli, et al
Group Art Unit	1631
Examiner Name	PAUL DOWELL
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PD	27	BERMONT, L., F. Lamielle, S. Fauconnet, H. Esumi, A. Weisz, and G. L. Adessi. 2000. Regulation of vascular endothelial growth factor expression by insulin-like growth factor-I in endometrial adenocarcinoma cells. <i>Int. J. Cancer</i> 85:117-123.	
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Sheet 4 of 17 Sheets

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	Paul Novell
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PD	37	COLEMAN, M. E., F. DeMayo, K. C. Yin, H. M. Lee, R. Geske, C. Montgomery, and R. J. Schwartz. 1995. Myogenic vector expression of insulin-like growth factor I stimulates muscle cell differentiation and myofiber hypertrophy in transgenic mice. J. Biol. Chem. 270:12109-12116.	
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	46	DE LUCA, A., S. Pierno, C. Camerino, D. Cocchi, and D. C. Camerino. 1999. Higher content of insulin-like growth factor-I in dystrophic mdx mouse: potential role in the spontaneous regeneration through an electrophysiological investigation of muscle function. Neuromuscul. Disord. 9:11-18.	

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Sheet 5 of 17 Sheets

Complete if Known

Application Number	10798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL DOWELL
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PD	47	DOLNIK, V., M. Novotny, and J. Chmelik. 1993. Electromigration behavior of poly-(L-glutamate) conformers in concentrated polyacrylamide gels. Biopolymers 33:1299-1306.	
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	52	DRAGHIA-Akli, R., M. L. Fiorotto, L. A. Hill, P. B. Malone, D. R. Deaver, and R. J. Schwartz. 1999. Myogenic expression of an injectable protease-resistant growth hormone-releasing hormone augments long-term growth in pigs. Nat. Biotechnol. 17:1179-1183.	
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	54	DRAGHIA-Akli, R., P. B. Malone, L. A. Hill, K. M. Ellis, R. J. Schwartz, and J. L. Nordstrom. 2002. Enhanced animal growth via ligand-regulated GHRH myogenic-injectable vectors. FASEB J. 16:426-428.	
PD	55	FEENER, E. P. and G. L. King. 1997. Vascular dysfunction in diabetes mellitus. Lancet 350 Suppl 1:S19-13.	

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Sheet 6 of 17 Sheets

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL DANIEL
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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PD	56	FEWELL, J. G., F. MacLaughlin, V. Mehta, M. Gondo, F. Nicol, E. Wilson, and L. C. Smith. 2001. Gene therapy for the treatment of hemophilia B using PINC-formulated plasmid delivered to muscle with electroporation. Mol. Ther. 3:574-583.	
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	63	FOWLER, B., Jamrozik, K., Norman, P., Allen, Y., 2002. Prevalence of peripheral arterial disease: persistence of excess risk in former smokers. Aust. N. Z. J Public Health 26, 219-224.	
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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, Ruxandra
Group Art Unit	1632
Examiner Name	PAUL BOWEN
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PD	65	GEHL, J., T. Skovsgaard, and L. M. Mir. 1998. Enhancement of cytotoxicity by electroporation: an improved method for screening drugs. <i>Anticancer Drugs</i> 9:319-325.	
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PD	72	HERZOG, R. W., J. D. Mount, V. R. Arruda, K. A. High, and C. D. Lothrop, Jr. 2001. Muscle-directed gene transfer and transient immune suppression result in sustained partial correction of canine hemophilia B caused by a null mutation. <i>Mol. Ther.</i> 4:192-200.	
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Sheet 8 of 17 Sheets

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Application Number	10798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al
Group Art Unit	1632
Examiner Name	PAUL DOWELL
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PD	75	HSU, H. H., M. M. Zdanowicz, V. R. Agarwal, and P. W. Speiser. 1997. Expression of myogenic regulatory factors in normal and dystrophic mice: effects of IGF-I treatment. Biochem. Mol. Med. 60:142-148.	
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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, Ruxandra
Group Art Unit	
Examiner Name	
Attorney Docket Number	AVSI-0034 (108328.00172)

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MM	84	KAWAMOTO, T., K. Makino, H. Niwa, H. Sugiyama, S. Kimura, M. Amemura, A. Nakata, and T. Kakunaga. 1988. Identification of the human beta-actin enhancer and its binding factor. Mol. Cell Biol. 8:267-272.	
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Sheet 10 of 17 Sheets

Complete if Known

Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL ROYER
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL DOWELL
Attorney Docket Number	AVSI-0034 (108328.00172)

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PD	102	LUCAS, M. L., M. J. Jaroszeski, R. Gilbert, and R. Heller. 2001. In vivo electroporation using an exponentially enhanced pulse: a new waveform. DNA Cell Biol. 20:183-188.	
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Sheet 12 of 17 Sheets

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Application Number	10798,896
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First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL POWELL
Attorney Docket Number	AVSI-0034 (108328.00172)

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PO	112	MIKLAVCIC, D., K. Beravs, D. Semrov, M. Cemazar, F. Demsar, and G. Sersa. 1998. The importance of electric field distribution for effective in vivo electroporation of tissues. Biophys. J 74:2152-2158.	
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Application Number	10/798,896
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First Named Inventor	Draghia-Akli, et al.
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Attorney Docket Number	AVSI-0034 (108328.00172)

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PD	122	OTANI, Y., Y. Tabata, and Y. Ikada. 1998. Hemostatic capability of rapidly curable glues from gelatin, poly(L-glutamic acid), and carbodiimide. Biomaterials 19:2091-2098.	
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Sheet 14 of 17 Sheets

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	632
Examiner Name	Pam Dume
Attorney Docket Number	AVSI-0034 (108328.00172)

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DN	132	REINMUTH, N., F. Fan, W. Liu, A. A. Parikh, O. Stoeltzing, Y. D. Jung, C. D. Bucana, R. Radinsky, G. E. Gallick, and L. M. Ellis. 2002. Impact of insulin-like growth factor receptor-I function on angiogenesis, growth, and metastasis of colon cancer. <i>Lab Invest</i> 82:1377-1389.	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 15 of 17 Sheets

Complete if Known

Application Number	10798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL MONE
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PV	142	SONG, S., J. Embury, P. J. Laipis, K. I. Bems, J. M. Crawford, and T. R. Flotte. 2001. Stable therapeutic serum levels of human alpha-1 antitrypsin (AAT) after portal vein injection of recombinant adeno-associated virus (rAAV) vectors. <i>Gene Ther.</i> 8:1299-1306.	
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Sheet 16 of 17 Sheets

Complete if Known

Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	JAM DONEU
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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PD	161	WELLS, K. E., J. Maule, R. Kingston, K. Foster, J. McMahon, E. Damien, A. Poole, and D. J. Wells. 1997. Immune responses, not promoter inactivation, are responsible for decreased long-term expression following plasmid gene transfer into skeletal muscle. FEBS Lett. 407:164-168.	

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Application Number	10798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	PAUL HOWELL
Attorney Docket Number	AVSI-0034 (108328.00172)

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WV	162	WOLFF, J. A., R. W. Malone, P. Williams, W. Chong, G. Acsadi, A. Jani, Felgner, and PL. 1990. Direct gene transfer into mouse muscle in vivo. Science 247:1465-1468.	
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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1632
Examiner Name	Paul Powell
Attorney Docket Number	AVSI-0034 (108328.00172)

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Sheet 2 of 2 Sheets

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akli, et al.
Group Art Unit	1692
Examiner Name	PAUL OSWELL
Attorney Docket Number	AVSI-0034 (108328.00172)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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PO	2	RABINOVSKY E. D., Draghia-Akli R., Insulin-Like Growth Factor I Plasmid Therapy Promotes in vivo Angiogenesis. Molecular Therapy Vol 9, No. 1, p 46-54 (2004).	
PO	3	International Search Report, International Application No. PCT/US 04/007295, August 8, 2004	

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Application Number	10/798,896
Filing Date	03/11/2004
First Named Inventor	Draghia-Akili, et al.
Group Art Unit	1622
Examiner Name	Paul Bowser
Attorney Docket Number	AVSI-0034 (108328.00172)

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